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◆ Samuel T. King, Peter M. Chen
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Publisher: ACM

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Analyzing intrusions today is an arduous, largely manual task because system administrators lack the information and tools needed to understand easily the sequence of steps that occurred in an attack. The goal of BackTracker is to identify automatically ...

Keywords: computer forensics, information flow, intrusion analysis

2 Backtracking intrusions

Samuel T. King, Peter M. Chen
December 2003   ACM SIGOPS Operating Systems Review, Volume 37 Issue 5

Publisher: ACM

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3 Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA intrusion detection system evaluations as performed by Lincoln Laboratory

November 2000   ACM Transactions on Information and System Security (TISSEC), Volume 3 Issue 4

Publisher: ACM

Full text available: pdf(156.16 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number ...

Keywords: computer security, intrusion detection, receiver operating curves (ROC), software evaluation

4 Backtracking intrusions

Samuel T. King, Peter M. Chen
February 2005   ACM Transactions on Computer Systems (TOCS), Volume 23 Issue 1

Publisher: ACM

Full text available: pdf(647.38 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

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Keywords: Computer forensics, information flow, intrusion analysis

5 <u>LIFT: A Low-Overhead Practical Information Flow Tracking System for Detecting Security Attacks</u>

Feng Qin, Cheng Wang, Zhenmin Li, Ho-seop Kim, Yuanyuan Zhou, Youfeng Wu
December 2006   MICRO 39: Proceedings of the 39th Annual IEEE/ACM International Symposium on Microarchitecture
Publisher: IEEE Computer Society

Full text available: <u>pdf(254.69 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

Computer security is severely threatened by software vulnerabilities. Prior work shows that information flow tracking (also referred to as taint analysis) is a promising technique to detect a wide range of security attacks. However, current information ...

6 <u>Multi-module vulnerability analysis of web-based applications</u>

Davide Balzarotti, Marco Cova, Viktoria V. Felmetsger, Giovanni Vigna
October 2007   CCS '07: Proceedings of the 14th ACM conference on Computer and communications security
Publisher: ACM

Full text available: <u>pdf(319.23 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In recent years, web applications have become tremendously popular, and nowadays they are routinely used in security-critical environments, such as medical, financial, and military systems. As the use of web applications for critical services has increased, ...

Keywords: dynamic analysis, multi-step attacks, static analysis, vulnerability analysis, web applications

7 <u>ASM: application security monitor</u>

Micha Moffie, David Kaeli
December 2005   ACM SIGARCH Computer Architecture News,   Volume 33 Issue 5
Publisher: ACM

Full text available: <u>pdf(246.65 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Our Application Security Monitor *(ASM) is a run-time monitor that dynamically collects execution-related data. ASM is part of a security framework that will allow us to explore different security policies aimed at identifying malicious behavior ...*

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